



ENERGETIC MATERIAL CENTER

Peningkatan produk dan pengembangan proses bahan peledak telah dilakukan. Didukung oleh tenaga dan ahli yang sangat berpengalaman dan berkualitas, dan fasilitas laboratorium yang canggih, DAHANA terus meningkatkan kemampuannya dalam menjamin kepuasan pelanggan.

Kegiatan Energetic Material Center mencakup bidang-bidang desain dan rekayasa komposisi bahan peledak, ANFO Mixer dan ANFO Truck, Sistem Proses Emulsi, Mobile Manufacturing Truck and Konsultasi Bahan Peledak.

KOMPOSISI BAHAN PELEDAK

Kegiatan ini berfokus pada desain dan rekayasa bahan peledak, terutama emulsi yang berbasis air. Aktivitas ini bertujuan untuk memproduksi komposisi emulsi dengan kinerja dan keamanan yang lebih baik untuk menjamin terciptanya operasi yang efisien dan efektif.

ANFO MIXER AND ANFO TRUCK

Teknologi ANFO kami dimulai pada tahun 1992 dengan penerapan desain dan rekayasa yang diusahakan oleh DAHANA melalui fasilitas produksi ANFO di Tasikmalaya dan Subang yang memiliki kapasitas 7,500 Mton/Shift/Year.

Berdasarkan itu, pengembangan selanjutnya menghasilkan desain ANFO Mixer sistem portabel dan permanen dengan kapasitas 4 ton/jam sampai 8 ton/jam.



The extensive product and process development of emulsion explosives have been successfully accomplished for quite a while.

Supported by well experienced and highly qualified engineers and scientists as well as advanced laboratory facilities, DAHANA continues to improve its capabilities to deliver better customer satisfaction.

Energetic Material Center activity covers the fields of design and Engineering of Explosives Compositions, ANFO Mixer and ANFO Truck, Emulsion Process System as well as Mobile Manufacturing Truck and Explosives Consultation.

EXPLOSIVES COMPOSITION

This activity focuses on design and engineering of explosives composition, especially water based emulsion. The aim of the activity is to produce explosives compositions with better performance and safety to support efficient and effective operations.

ANFO MIXER AND ANFO TRUCK

Our ANFO Technology started in 1992 with the implementation of DAHANA's own design and engineering of ANFO Production facility in Tasikmalaya and Subang with a capacity of 7,500 Mton/Shift/Year.



Untuk melayani pekerjaan peledakan besar di mana waktu pemuatan bahan peledak merupakan keputusan penting, Energetic Material Center menawarkan desain dan rekayasa ANFO Truck dengan kapasitas beragam mulai 4 ton – 8 ton.

ANFO Truck juga dilengkapi dengan Loading Control System (Sistem Pengendalian Muatan) untuk meningkatkan efektivitas operasi lapangan. Beberapa jenis truk berukuran of 4x4 or 6x4 tersedia sesuai permintaan.

SISTEM PROSES EMULSION

Melanjutkan keberhasilan transfer teknologi produk-produk emulsi berlisensi, DAHANA meluaskan kapasitas dengan mengembangkan on-site plant yang sebelumnya telah berhasil dikembangkan di lebih dari 8 job sites, dari Karimun sampai Continuous OSP di Adaro.

MOBILE MANUFACTURING TRUCK (MMT)

Meningkatnya konsumsi bahan peledak emulsi curah akan meningkatkan permintaan bahan peledak emulsi curah yang juga akan meningkatkan permintaan prose bahan peledak dan penggunaan peralatan.

Berbekal pengalaman pengembangan MMT untuk Proyek Karimun, Energetic Material Center baru saja mengembangkan kemampuan untuk menyediakan Riset dan Rekayasa Unit Manufaktur Bergerak untuk konsumen yang memiliki kapasitas 2 sampai 20 ton.

Unit-unit yang diproduksi oleh PT DAHANA (Persero) telah menjalani serangkaian uji dan terbukti bisa dioperasikan dalam berbagai kondisi iklim di mana suhu yang tepat dan tingkat kelembaban yang tinggi memiliki dampak besar pada operasi peralatan.

Penggerak utama screw conveyor dan semua sistem pemompaan dirancang untuk mengoperasikan pak-pak hidrolis untuk mencapai fleksibilitas tinggi di bidang operasi dan pemeliharaan.

Sistem kendali loading diadopsikan ke dalam MMT untuk meningkatkan efektivitas operasi MMT. Beberapa jenis dan merek truk of 4x4 or 6x6 tersedia berdasarkan pesanan.

KONSULTASI BAHAN PELEDAK

Energetic Material Center juga memberikan jasa konsultasi di bidang bahan peladak yang mencakup teknologi dan aplikasi bahan peledak, teknologi peledakan dan bahan peledak untuk demolisi.

KEAMANAN DESAIN

Untuk menjamin agar unit rekayasa dan pengembangan kami kami bisa memenuhi persyaratan-persyaratan keamanan, maka HAZOP STUDY (Kajian HAZOP) dijalankan pada masing-masing tahap perencanaan desain sampai ke tahap percobaan peralatan.

Based on that, further development resulted in the design of portable and permanent Continuous ANFO Mixer System with capacities of 4 Ton/hour to 8 Ton/hour.

To serve large blasting customers where the explosives loading time becomes a decisive matter, the Energetic Material Center offers design and engineering of ANFO Truck with various capacities from 4 Ton – 8 Ton.

ANFO Truck is also equipped with Loading Control System to increase the field operational effectiveness. Several types and makes of 4x4 or 6x4 trucks are available by request.

EMULSION PROCESS SYSTEM

Continuing the success of the technology transfer of Emulsion licensed products, DAHANA has extended the capabilities by developing On Site Plant which had been successfully operating at more than 8 jobsites, from Karimun to the Continuous OSP at Adaro.

Mobile Manufacturing Truck (MMT)

The increase of Bulk Emulsion explosives consumption will increase the demand of Bulk Emulsion Explosives which will also increase the demand of Explosives Processing and Delivery Equipments.

Starting with the experiences of developing MMT for Karimun Project, the Energetic Material Center has recently developed the capability to provide customers with the Research and Engineering of Mobile Manufacturing Unit with various design capacities of 2 up to 20 ton.

The MMT units produced by PT DAHANA (Persero) have been tested and proven to operate under tropical climate conditions where ambient temperature and extreme humidity have great impacts on the operation of the equipments.

The main driving power of screw conveyor and all pumping systems are designed to operate using Hydraulic packs to achieve high flexibility in the operation and maintenance.

Loading Control System is adopted to the MMT to increase the operational effectiveness of the MMT. Several types and makes of 4x4 or 6x6 trucks are available by request.

EXPLOSIVE CONSULTING

The Energetic Material Center also provides general consultation on the explosives fields covering explosives technology and applications, product knowledge information, blasting technology and also explosives demolition

SAFETY THROUGH DESIGN

To ensure the product output of Our Engineering Center meets the safety requirements, a HAZOP STUDY is carried out on every stage of the design planning to the trial run of the equipments.

